

SML Microbial Organic Fertilizer
- Basic Elemental and Microbial properties -

Role of Microbial Organic Fertilizers and Earthworm castings (Vermicompost) in the nutrition of agricultural fields has only recently attracted the attention of researchers worldwide.

Waste management is considered as an integral part of a sustainable society, thereby necessitating diversion of biodegradable fractions of the societal waste from landfill into alternative management processes such as composting and organic fertilizer production. Microbial Organic Fertilizers and vermicomposts are rich in humus, NPK, micronutrients, beneficial soil microbes; nitrogen-fixing, phosphate solubilizing bacteria, actinomycets and growth hormones auxins, gibberlins & cytokinins.

Both Microbial Organic Fertilizer and vermicompost are proven as both growth promoters & protectors for crop plants.

Below is a table showing the comparison between elemental and nutrient properties of various organic fertilizer to our patent pending Microbial Organic Fertilizer.

Organic Fertilizers				
Chemical Properties	Microbial Organic Fertilizer	Vermi-compost / Worm Castings	Mushroom Compost	Farmyard Manure
Dry Organic matter %	82,67	75,46	80,26	71,36
pH (in H ₂ O)	7,83	7,56	6,92	7,72
Total N %	5,10	1,99	1,65	1,71
Total C %	59,30	25,2	18,37	32,5
C:N	11,63	12,7	11,13	19,01
Total P O %	3,14	3,02	2,27	2,03
Total K ₂ O %	3,20	1,26	1,81	2,81
Fe mg kg ⁻¹	1620,00	1054	1342	986
Mn mg kg ⁻¹	201,00	171	230	126
Cu mg kg ⁻¹	17,00	8,9	26,8	5,54
Zn mg kg ⁻¹	51,00	45,2	53	35,8